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UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No. First Inventor		PD-01W144			
		Winslow			
Title	Heat Exchanger	:	13 (
Expre	ss Mail Label No.	EU430993938US	16		

(Only for new nonprovisional applications under 37 CFR 1.53(b))

APPLICATION ELEM See MPEP chapter 600 concerning utility p	ADI	DRESS TO:	Box	stant Cor Patent A hington,	pplicat					
Fee Transmittal Form (e.g., PTC		7.	CD-ROM or	CD-R in	duplicate	e. large	e table or			
(Submit an original and a auplicate for fee proc		<u> </u>	Computer Pr	ogram (Appendi	x)				
2. Applicant claims small entity stat See 37 CFR 1.27.			cleotide and/or A applicable, all ne			ence S	Submission			
3. (preferred arrangement set forth below)	Pages 13]	a.	Computer	Readabl	e Form (CRF)				
 Descriptive title of the invention Cross Reference to Related Applications 			b. Specification Sequence Listing on:							
 Statement Regarding Fed spo 	onsored R & D		i. CD-ROM or CD-R (2 copies); or							
- Reference to sequence listing, a table,			i i. 🔲 paper							
or a computer program listing - Background of the Invention	appendix	C.								
 Brief Summary of the Inventio Brief Description of the Drawin 			ACCOMPANYING APPLICATION PARTS							
 Detailed Description 		9.	Assignment	Papers	(cover s	heet &	document(s))			
Claim(s)Abstract of the Disclosure		10.	37 CFR 3.7			Γ	Power of Attorney			
Denving(a) (25 11 C C 442) E	Tatal Shoots 4	111.	(when there English Tra		7 .	ent <i>(if a</i>	•			
	Total Bares [4]	12.	Information	Disclos	ure	Γ.	Copies of IDS			
5. Oath or Declaration [Total Pages]			Statement (IDS)/PTO-1449 Citations 13. Preliminary Amendment							
a. Newly executed (original o	on (37 CFR 1.63 (d))	1	Return Receipt Postcard (MPEP 503)							
b. (for continuation/divisional with Box 18 completed)			(Should be specifically itemized)							
i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s)			15. [if foreign priority is claimed]							
named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).			Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.							
6 Application Data Sheet.S ee 37	7 CFR 1.76	17.	_ 							
18. If a CONTINUING APPLICATION, checor in an Application Data Sheet under 37 C		ply the req	uisite information	below a	nd in a p	orelimii	nary amendment,			
Continuation Divisional	Continuation-in-part (CIP)		of prior application No).:						
Prior application information: Examiner.				Art Unit: _						
For CONTINUATION OR DIVISIONAL APPS on Box 5b, is considered a part of the disclosure										
The incorporation can only be relied upon who										
	19. CORRESPOND	ENCE ADI	DRESS							
Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) Or Correspondence address below										
Name Leonard	A. Alkov, Esq.		4		, === 1.0					
Raytheon C	ompany									
Address P.O. Box 902 (E4/N119)										
City El Seguno	do	State	CA		Zip C	Code	90245-0902			
Country USA	Tel	ephone	310.647.2	577	Fa	ЭX	310.647.2616			
Name (Print/Type) Leonard A	a. Alkov	Reg	istration No. (A	ttorney	/Agent)		30,102			
Signature Lund	11 11 1201			Ť	Date	0	6/23/2003			

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

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und for use through 04/	30/2003 CMD 06E	1 002

Approved for use through 04/30/2003. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.									
F		Complete if Known							
FEE TRANSMITTA			Application Number			er			
			Filing Date						
for FY 2003						tor	Winslow		
Effective 01/01/2003. Patent fees are subject to annual revision.			Examiner Name				,	•	
Applica	nt claims small entity status. See 37 CFR 1.27		Art Unit						
TOTAL AM	MOUNT OF PAYMENT (\$) 898.00		Attorney Docket No.			lo.	PD-01W144		
METH		FEE CALCULATION (continued)							
Check	Credit card Money Other None	3. ADDITIONAL FEES							
Deposit	Account:	Large	Entity	Small	Entity				
Deposit	<u></u>	Fee Code	Fee e (\$)	Fee Code	Fee (\$)		Fee Description	Eng Daid	
Account Number	50-0616	1051		2051		Surch	arge - late filing fee or oath	Fee Paid	
Deposit Account	Raytheon Company	1052	50	2052	25	Surch	arge - late provisional filing fee or sheet		
Name The Disaster is	s authorized to: (check all that apply)	1053	130	1053			English specification		
	(s) indicated below Credit any overpayments	1812	2,520	1812 2	,520	For fili	ing a request for ex parte reexamination		
=	y additional fee(s) during the pendency of this application	1804	920*	1804			esting publication of SIR prior to iner action		
Charge fee(s) indicated below, except for the filing fee		1805	1,840*	1805 1		Requ	esting publication of SIR after		
to the above-id	lentified deposit account.	4054	440	0054			niner action		
	FEE CALCULATION	1251		2251			nsion for reply within first month		
1. BASIC F	·	1252 1253		2252 2253	205				
Large Entity S Fee Fee	Fee Fee Fee Description Fee Paid		1,450	2254	465 725		nsion for reply within third month		
	Code (\$)		1,970	2255			nsion for reply within fourth month nsion for reply within fifth month		
1001 750	2001 375 Utility filing fee 750.00	1401		2401					
1002 330 1003 520	2002 165 Design filing fee 2003 260 Plant filing fee	1402		2401			e of Appeal a brief in support of an appeal		
1003 520	2003 260 Plant filing fee 2004 375 Reissue filing fee	1403		2403		_	est for oral hearing		
1004 750	2005 80 Provisional filing fee	i	1,510	l			on to institute a public use proceeding		
	SUBTOTAL (1) (\$) 750.00	1452		2452			on to revive - unavoidable		
		1453	1,300	2453	650	Petiti	on to revive - unintentional		
2. EXTRA (CLAIM FEES FOR UTILITY AND REISSUE	1501	1,300	2501	650	Uţility	rissue fee (or reissue)		
	Extra Claims below Fee Paid	1502	470	2502	235	Desig	gn issue fee		
Total Claims Independent	26 -20** = 6 X 18 = 108	1503	630	2503	315	Plant	ti ssue fee		
Claims Multiple Deper	2 - 3** = X 84 =	1460	130	1460	130	Petiti	ons to the Commissioner		
	<u> </u>	1807	50	1807	50	Proc	essing fee under 37 CFR 1.17(q)	[
Large Entity Fee Fee	Small Entity Fee Fee Fee Description	1806	180	1806			nission of Information Disclosure Stmt]	
Code (\$)	Code (\$)	8021	40	8021	40	Reco	rding each patent assignment per erty (times number of properties)	40.00	
1202 18	2202 9 Claims in excess of 20	1809	750	2809	375	Filing	a submission after final rejection		
1201 84	2201 42 Independent claims in excess of 3	404-	760	00.0	07-		FR 1.129(a))		
1203 280 1204 84	2203 140 Multiple dependent claim, if not paid 2204 42 ** Reissue independent claims	1810	750	2810	375		ach additional invention to be iined (37 CFR 1.129(b))		
	over original patent	1801	1 750	2801	375	Rea	uest for Continued Examination (RCE)		

**or number previ	ously paid, if greater; For Reissues, see above	*Reduced by Basic Filing Fee Paid	SUBTOTAL (3) (\$) 40.00			
SUBMITTED BY			(Complete (if applicable)			
Name (Print/Type)	Leonard A. Alkov	Registration No. (Attorney/Agent) 30,021	Telephone 310.647.2577			
Signature	Frenaid a all	har	Date 06/23/2003			

1802 900 1802

Other fee (specify)

*Reduced by Basic Filing Fee Paid

900 Request for expedited examination of a design application

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

** Reissue claims in excess of 20

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and over original patent

SUBTOTAL (2)